What is claimed is:

1. A bidirectional optical module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by cutting an optical fiber in the middle thereof aslant a core of the optical fiber, and inserting a filter or a half mirror between obtained cross sections of the core; and

a light transmitter, wherein a light emitting device is optically coupled with one end of the optical fiber,

wherein the light receiver is set to have a receptacle structure, which comprises a ferrule, in which the other end of the optical fiber is inserted from inside, and which can physically contact with an optical connector.

2. A bidirectional optical module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by partly forming a cutting part to expose part of a lateral face of an optical fiber in a ferrule having a thorough-hole to insert the optical fiber, letting the optical fiber through the ferrule, forming a slit at the cutting part, forming cross sections aslant a core of the optical fiber, and inserting a filter or a half mirror between the cross sections of the core; and

a light transmitter, wherein a light emitting device is optically coupled with one end of the optical fiber,

wherein a part protruding from an end face of the ferrule on the other

end side of the optical fiber is cut, an end face of the ferrule on the side opposite of the light transmitter-connected side is polished so that the ferrule can physically contact with an optical connector, and the light receiver is set to have a receptacle structure.

3. The bidirectional optical module according to claim 1 or 2, wherein the photo acceptance unit of the light receiver is mounted on the same slave substrate as a subsequent circuit is, and the slave substrate and a master substrate on which the module is mounted are electrically connected by a flexible wiring substrate.

4. The bidirectional optical module according to claim 3, wherein the slave substrate is formed of a three-dimensional substrate.

5. The bidirectional optical module according to claim 4, wherein the three-dimensional substrate has a shape available to engage with a locking piece of an optical connector adapter.

6. The bidirectional optical module according to claim 1 or 2, wherein an index matching resin which is cured by ultraviolet is filled on a light path from the light output part to the photo acceptance unit, and the ferrule is made of a material transparent to ultraviolet by which the index matching resin is cured.

7. A bidirectional optical module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by facing a slope of a first optical fiber whose at least one end is a slope and a slope of a second optical fiber whose at least one end is a slope so that they are optically coupled, and inserting a filter or a half mirror between the facing both slopes of an optical fiber core; and

a light transmitter, wherein a light emitting device is optically coupled with an end of the second optical fiber on the side opposite of the light output part,

wherein a ferrule which has a through-hole to insert the optical fiber and which can physically contact with an optical connector is provided at one end of the first optical fiber on the side opposite of the light output part, the ferrule and the light receiver are integrated, and the light receiver is set to have a receptacle structure.

8. A bidirectional optical module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by,

forming a cutting flat part to expose part of a lateral face of a first optical fiber on one end of a first ferrule having a through-hole to insert the first optical fiber, letting through the first optical fiber, and cutting parts thereof protruding form both ends of the first ferrule,

forming a cutting flat part to expose part of a lateral face of a second optical fiber on one end of a second ferrule having a through-hole to insert the second optical fiber, letting through the second optical fiber,

and cutting only a part thereof protruding from the cutting flat part side of the second ferrule,

processing optical fiber ends of the first and the second optical fibers on their cutting flat part sides in the slope shape at an angle that the first optical fiber and the second optical fiber are optically coupled, when the cutting flat parts of the first ferrule and the second ferrule are faced so that they are on the same level, and

facing the cutting flat part sides of the first ferrule and the second ferrule so that they are on the same level, and inserting a filter or a half mirror between the both slopes of an optical fiber core; and

a light transmitter, wherein a light emitting device is optically coupled with an end of the second optical fiber on the side opposite of the light output part,

wherein an end face of the first ferrule on the side opposite of the cutting flat part is polished to allow the ferrule to physically contact with an optical connector, and the light receiver has a receptacle structure.

9. The bidirectional optical module according to claim 7 or 8, wherein the photo acceptance unit of the light receiver is mounted on the same substrate as a subsequent circuit is, and the slave substrate and a master substrate on which the module is mounted are electrically connected by a flexible wiring substrate.

10. The optical transmission device, on which the bidirectional

optical module according to any one of claims 1, 2, 7, and 8 is mounted.

11. An optical drop module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by cutting an optical fiber in the middle thereof aslant a core of the optical fiber, and inserting a filter between obtained cross sections of the core,

wherein an optical connector is provided at one end of the optical fiber, a ferrule available to physically contact with an optical connector is provided on the other end, the ferrule and the light receiver are integrated, and the light receiver is set to have a receptacle structure.

12. An optical drop module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by partly forming a cutting part to expose part of a lateral face of an optical fiber in a ferrule having a through-hole to insert the optical fiber, letting the optical fiber through the ferrule, forming a slit at the cutting part, forming cross sections aslant a core of the optical fiber, and inserting a filter between the cross sections of the core,

wherein an optical connector is provided at one end of the optical fiber, a part protruding from an end face of the ferrule on the other end side of the optical fiber is cut, an end face of the ferrule on the side opposite of the optical connector-provided side is polished so that the ferrule can physically contact with an optical connector, and the light receiver is

set to have a receptacle structure.

13. The optical drop module according to claim 11 or 12, wherein the photo acceptance unit of the light receiver is mounted on the same slave substrate as a subsequent circuit is, and the slave substrate and a master substrate on which a module is mounted are electrically connected by a flexible wiring substrate.

14. The optical drop module according to claim 13, wherein the slave substrate is formed of a three-dimensional substrate.

15. The optical drop module according to claim 14, wherein the three-dimensional substrate has a shape to engage with a locking piece of an optical connector adapter.

16. The optical drop module according to claim 11 or 12, wherein an index matching resin which is cured by ultraviolet is filled on a light path from the light output part to the photo acceptance unit, and the ferrule is made of a material transparent to ultraviolet which cures the index matching resin.

17. An optical drop module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by facing a slope of a first optical fiber whose at least one end is a slope and a slope of a second optical

fiber whose at least one end is a slope so that they are optically coupled, and inserting a filter between the both slopes of an optical fiber core,

wherein an optical connector is provided at an end of the second optical fiber on the side opposite of the light output part, a ferrule which has a through-hole to insert the optical fiber and which can physically contact with an optical connector is provided at an end of the first optical fiber on the side opposite of the light output part, the ferrule and the light receiver is integrated, and the light receiver is set to have a receptacle structure.

18. An optical drop module comprising:

a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by,

forming a cutting flat part to expose part of a lateral face of a first optical fiber on one end of a first ferrule having a through-hole to insert the first optical fiber, letting through the first optical fiber, and cutting parts thereof protruding form both ends of the first ferrule,

forming a cutting flat part to expose part of a lateral face of a second optical fiber on one end of a second ferrule having a through-hole to insert the second optical fiber, letting through the second optical fiber, and cutting only a part thereof protruding from the cutting flat part side of the second ferrule,

processing optical fiber ends of the first and the second optical fibers on their cutting flat part sides in the slope shape at an angle that the first optical fiber and the second optical fiber are optically coupled, when

the cutting flat parts of the first ferrule and the second ferrule are faced so that they are on the same level, and

facing the cutting flat part sides of the first ferrule and the second ferrule so that they are on the same level, and inserting a filter between the both slopes of an optical fiber core,

wherein an optical connector is provided at one end of the second optical fiber on the side opposite of the light output part, an end face of the first ferrule on the side opposite of the cutting flat part is polished to allow the ferrule to physically contact with an optical connector, and the light receiver is set to have a receptacle structure.

19. The optical drop module according to claim 17 or 18, wherein the photo acceptance unit of the light receiver is mounted on the same slave substrate as a subsequent circuit is, and the slave substrate and a master substrate on which the module is mounted are electrically connected by a flexible wiring substrate.

20. The optical transmission device, on which the optical drop module according to any one of claims 11, 12, 17, and 18 is mounted.